

April - 2016

**B.C.A Semester – IV examination**

Duration: 2 hour 30 min

Paper: 406 – Data Communication and networking

Mark: 70

**Q. 1. Answer the following Questions.**

- 1) What is Communication System? Explain types of data communication. [07]
- 2) Explain Twisted Pair cable in detail. [07]

OR

**Q. 1. Answer the following Questions.**

- 1) Write short note on Coaxial cable. [07]
- 2) Explain Optic Fiber cable with its types. [07]

**Q. 2. Answer the following Questions.**

- 1) Explain Satellite communication. [07]
- 2) How FDDI works? Explain with diagram. [07]

OR

**Q. 2. Answer the following Questions.**

- 1) Which light sources are used in optic fiber cable? Explain advantage and disadvantage of optic fiber cable. [07]
- 2) Write a note on Multimode optic fiber cable. [07]

**Q. 3. Answer the following Questions.**

- 1) Explain Facsimile. [07]
- 2) Write short note on ISDN [07]

OR

**Q. 3. Answer the following Questions.**

- 1) Explain circuit switching and packet switching [07]
- 2) Explain PABX. [07]

**Q. 4. Answer the following Questions.**

- 1) Explain Local Area Network. [07]
- 2) List OSI layer. Explain Data link layer and session layer. [07]

OR

**Q. 4. Answer the following Questions.**

- 1) Explain Token ring and Token bus. [07]
- 2) Explain MAN and WAN with its architecture. [07]

**Q. 5. Answer the following Questions.**

- 1) Explain TCP/IP in detail. [07]
- 2) Explain Firewall. [07]

OR

**Q. 5. Answer the following Questions.**

- 1) Explain Hub and Switch. [07]
- 2) Explain Modem, Router and Bridge. [07]